

## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1           1. (Currently amended) A system for enabling one or more  
2 arbitrary components to communicate with each other, the system  
3 comprising:  
4           a first component associated with one or more universal interfaces,  
5 wherein the one or more universal interfaces comprise executable code and  
6 data;  
7           a second component obtaining one of the one or more universal  
8 interfaces associated with the first component, wherein the second component  
9 includes a discovery mechanism configured to discover the first component;  
10          wherein the second component automatically invokes at least one of the  
11 universal interfaces to communicate with the first component; and  
12          wherein the second component and the first component do not share a  
13 standard communication protocol which is distinct from a discovery protocol  
14 that is part of the discovery mechanism.

1           2. (Original) The system as set forth in claim 1 wherein the first  
2 component transfers a data object to the second component, the data object  
3 having the one or more universal interfaces.

1           3. (Original) The system as set forth in claim 1 wherein the first  
2 component transfers a data object to the second component, the data object

3     having instructions and data for accessing the one or more universal interfaces.

1             4. (Original) The system as set forth in claim 1 wherein the second  
2     component has instructions and data for accessing a data object, the data object  
3     having the one or more universal interfaces.

1             5. (Original) The system as set forth in claim 1 wherein the second  
2     component interacts with an operating system environment, the operating  
3     system environment having instructions and data for accessing a data object  
4     having the one or more universal interfaces.

1             6. (Original) The system as set forth in claim 1 wherein the second  
2     component has instructions and data for using the one or more universal  
3     interfaces.

1             7. (Original) The system as set forth in claim 1 wherein a third  
2     component transfers a data object to the second component, the data object  
3     having the one or more universal interfaces associated with the first  
4     component.

1             8. (Original) The system as set forth in claim 1 wherein the one or more  
2     universal interfaces comprise a data source interface, a data sink interface, an  
3     aggregation interface, a mutable aggregation interface, a context interface, a  
4     notification interface or a user interface.

1             9. (Original) The system as set forth in claim 1 wherein the one or more  
2     universal interfaces comprise object-oriented mobile code having instructions  
3     for obtaining, interpreting, viewing or modifying data associated with one or

4 more collections of components, providing one or more user interfaces to allow  
5 one or more components to be accessed or manipulated, allowing one or more  
6 components to provide event notifications or retrieving contextual data  
7 associated with the second component.

1 10. (Original) The system as set forth in claim 1 wherein one of the one  
2 or more universal interfaces comprise a source-specific data transfer session  
3 having instructions for converting data transferred through the source-specific  
4 data transfer session.

1 11. (Original) The system as set forth in claim 1 wherein the one or more  
2 arbitrary components comprise a computer system, device, network service,  
3 application, data, memory, file directory or individual file.

1 12. (Currently amended) A method for enabling one or more  
2 arbitrary components to communicate with each other, the method  
3 comprising:  
4 | performing a discovery operation at a second component to  
5 discover a first component;  
6 obtaining one of one or more universal interfaces associated with  
7 the first component at the second component, wherein the one or more  
8 universal interfaces comprise executable code and data;  
9 automatically invoking at least one of the universal interfaces at the  
10 second component to communicate with the first component; and  
11 wherein the second component and the first component do not share a  
12 | standard communication protocol which is distinct from a discovery protocol  
13 | that is part of the discovery operation.

1           13. (Original) The method as set forth in claim 12 further comprising  
2 transferring a data object to a second component, the data object having the one  
3 or more universal interfaces.

1           14. (Original) The method as set forth in claim 12 further comprising  
2 transferring a data object to a second component, the data object having  
3 instructions and data for enabling the second component to use the one or more  
4 universal interfaces.

1           15. (Original) The method as set forth in claim 12 further comprising  
2 transferring a data object to a second component, the second component having  
3 instructions and data for enabling it to use the one or more universal interfaces.

1           16. (Original) The method as set forth in claim 12 wherein a second  
2 component interacts with an operating system environment, the operating  
3 system environment having instructions and data for enabling the second  
4 component to use the one or more universal interfaces.

1           17. (Original) The method as set forth in claim 12 wherein a second  
2 component performs instructions for using the one or more universal interfaces.

1           18. (Original) The method as set forth in claim 12 wherein a third  
2 component transfers a data object to a second component, the data object having  
3 the one or more universal interfaces associated with the first component.

1           19. (Original) The method as set forth in claim 12 wherein the one or  
2 more universal interfaces comprise a data source interface, a data sink interface,  
3 an aggregation interface, a mutable aggregation interface, a context interface, a

4 notification interface or a user interface.

1 20. (Original) The method as set forth in claim 12 wherein the one or  
2 more universal interfaces comprise object-oriented mobile code having  
3 instructions for obtaining, interpreting, viewing or modifying obtaining, viewing  
4 or modifying data associated with a collection of components, providing an  
5 interface to allow requested components to be accessed or manipulated directly,  
6 allowing requested components to provide the one or more other components  
7 with status updates of the requested components or retrieving contextual data  
8 associated with the second component.

1 21. (Original) The method as set forth in claim 12 wherein one of the  
2 one or more universal interfaces comprise a source-specific data transfer session  
3 having instructions for converting data transferred through the source-specific  
4 data transfer session.

1 22. (Original) The method as set forth in claim 12 wherein the one or  
2 more arbitrary components comprise a device, network service, application,  
3 data, memory, file directory or individual file.

1 23. (Currently amended) A computer readable medium having  
2 stored thereon instructions for enabling one or more arbitrary  
3 components to communicate with each other, which when executed by  
4 one or more processors, causes the processors to perform the steps of:  
5 discovering a first component at a second component;  
6 obtaining one of one or more universal interfaces associated with  
7 the first component at the second component, wherein the one or more  
8 universal interfaces comprise executable code and data;

9            automatically invoking at least one of the universal interfaces at the  
10   second component to communicate with the first component ; and  
11            wherein the second component and the first component do not share a  
12   standard communication protocol which is distinct from a discovery protocol  
13   that is part of the discovering step.

1            24. (Original) The medium as set forth in claim 23 further comprising  
2   transferring a data object to a second component, the data object having the one  
3   or more universal interfaces.

1            25. (Original) The medium as set forth in claim 23 further comprising  
2   transferring a data object to a second component, the data object having  
3   instructions and data for enabling the second component to use the one or more  
4   universal interfaces.

1            26. (Original) The medium as set forth in claim 23 further comprising  
2   transferring a data object to a second component, the second component having  
3   instructions and data for enabling it to use the one or more universal interfaces.

1            27. (Original) The medium as set forth in claim 23 wherein a second  
2   component interacts with an operating system environment, the operating  
3   system environment having instructions and data for enabling the second  
4   component to use the one or more universal interfaces.

1            28. (Original) The medium as set forth in claim 23 wherein a second  
2   component performs instructions for using the one or more universal interfaces.

1            29. (Original) The medium as set forth in claim 23 wherein a third

2 component transfers a data object to a second component, the data object having  
3 the one or more universal interfaces associated with the first component.

1 30. (Original) The medium as set forth in claim 23 wherein the one or  
2 more universal interfaces comprise a data source interface, a data sink interface,  
3 an aggregation interface, a mutable aggregation interface, a context interface, a  
4 notification interface or a user interface.

1 31. (Original) The medium as set forth in claim 23 wherein the one or  
2 more universal interfaces comprise object-oriented mobile code having  
3 instructions for obtaining, interpreting, viewing or modifying obtaining, viewing  
4 or modifying data associated with a collection of components, providing an  
5 interface to allow requested components to be accessed or manipulated directly,  
6 allowing requested components to provide the one or more other components  
7 with status updates of the requested components or retrieving contextual data  
8 associated with the second component.

1 32. (Original) The medium as set forth in claim 23 wherein one of the  
2 one or more universal interfaces comprise a source-specific data transfer session  
3 having instructions for converting data transferred through the source-specific  
4 data transfer session.

1 33. (Original) The medium as set forth in claim 23 wherein the one or  
2 more arbitrary components comprise a device, network service, application,  
3 data, memory, file directory or individual file.

1 34 – 44 (Cancelled).